





PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

pplicant's or agent's file reference HO-F65PCT	FOR FURTHER ACTION See Notification of Transmittal of Internation Preliminary Examination Report (Form PCT/IPEA/4		Examination Report (Form PC1/IFE/1416)									
nternational application No. PCT/JP2003/006928	International filing date (day/m. 02 June 2003 (02.06		Priority date (day/month/year) 05 June 2002 (05.06.2002)									
nternational Patent Classification (IPC) or r H02K 33/00	national classification and IPC											
Applicant HONI	OA GIKEN KOGYO KAB	USHIKI K.	AISHA									
This international preliminary exar and is transmitted to the applicant a	nination report has been prepared according to Article 36.	by this Intern	national Preliminary Examining Authority									
2. This REPORT consists of a total o	f 3 sheets, including	ng this cover	sheet.									
This report is also accompa		f the descript ining rectific	ion, claims and/or drawings which have been ations made before this Authority (see Rule									
These annexes consist of a	total of sheets.											
3. This report contains indications relating to the following items:												
I Basis of the report II Priority III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability												
							Lack of unity of invention					
								ent under Article 35(2) with regar lanations supporting such stateme	ed to novelty, ent	inventive step or industrial applicability;		
VI Certain documents cited VII Certain defects in the international application												
						VIII Certain observat	ions on the international applicati	on				
Date of submission of the demand			on of this report									
02 October 2003 (02	10.2003)		04 June 2004 (04.06.2004)									
Name and mailing address of the IPEA	JP Aut	horized office	== er									
1												

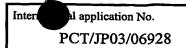


INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/JP2003/006928

L	Basis	of the re	eport .
1.	With	regard to	o the elements of the international application:*
	\boxtimes	the inte	ernational application as originally filed
		the des	cription:
		pages	, as originally filed
		pages	, filed with the demand
		pages	, filed with the letter of
	П	the clai	ims:
		pages	, as originally filed
		pages	, as amended (together with any statement under Article 19
		pages	, filed with the demand
		pages	, filed with the letter of
		the drav	wings:
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	· ا	•	ence listing part of the description:
		pages pages	, as originally filed
		pages	, filed with the letter of,
2.			o the language, all the elements marked above were available or furnished to this Authority in the language in which nal application was filed, unless otherwise indicated under this item.
			ts were available or furnished to this Authority in the following language which is:
	Ш	the lan	guage of a translation furnished for the purposes of international search (under Rule 23.1(b)).
	Ш	the lan	guage of publication of the international application (under Rule 48.3(b)).
	Ш	the lan or 55.3	guage of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/
3.			to any nucleotide and/or amino acid sequence disclosed in the international application, the international xamination was carried out on the basis of the sequence listing:
		contain	ned in the international application in written form.
	\Box		egether with the international application in computer readable form.
			ed subsequently to this Authority in written form.
			ed subsequently to this Authority in computer readable form.
			atement that the subsequently furnished written sequence listing does not go beyond the disclosure in the tional application as filed has been furnished.
		The sta	atement that the information recorded in computer readable form is identical to the written sequence listing has urnished.
4.		The am	nendments have resulted in the cancellation of:
			the description, pages
			the claims, Nos.
			the drawings, sheets/fig
5.			port has been established as if (some of) the amendments had not been made, since they have been considered to go the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
*	in the	is report	sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to tas "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16
**		0.17).	ent sheet containing such amendments must be referred to under item 1 and annexed to this report.
•	Any r	<i>ер</i> іасетв	ent sneet containing such amenaments must be rejerred to under tiem 1 and annexed to this report.





. Statement							
Novelty (N)	Claims	1-17	YES				
	Claims		NO NO				
Inventive step (IS)	Claims	1-17	YES				
	Claims		NO				
Industrial applicability (IA)	Claims	1-17	YES				
	Claims		NO				

2. Citations and explanations

Document 1: Microfilm of the specification and drawings annexed to the written application of Japanese Utility Model Application No. 30523/1990 (Laid-open No. 122275/1991)

Document 2: Microfilm of the specification and drawings annexed to the written application of Japanese Utility Model Application No. 37584/1983 (Laid-open No. 142575/1984)

Documents 1 and 2 disclose an actuator composed of a magnetic element fixed on an elastic shape-memory alloy.

However, none of documents 1 and 2, and the other documents cited in the ISR, discloses a constitution to drive an actuator by means of a magnetic field generated from a magnetic-field generator, using a superelastic characteristic of a shape-memory alloy, as in the invention of the present application.

The invention of the present application enables precise control with good responsiveness by providing the above-mentioned constitution.

Accordingly, the invention of the present application appears to be novel and to involve an inventive step.

The invention of the present application relates to an actuator, and is clearly industrially applicable.